

Forest Insect and Disease Management Group, S&PF
2500 Shreveport Highway
Pineville, Louisiana 71360

5230 Evaluation

June 9, 1976

Evaluation of cut-and-leave and cut-and-top treatment effects on within tree southern pine beetle populations and spot breakout (Expanded SPB Program)

Forest Supervisor
Kisatchie National Forest

State and Private Forestry is in its second field season for evaluating cut-and-leave and cut-and-top as alternative control tactics for the southern pine beetle (see attached Texas Forest Service circulars). Last winter we had one plot on the Evangeline and one plot on the Catahoula Ranger Districts. In order to complete our summer evaluations, we will need the following set aside for a one-month period.

One area having 30 trees infested by the southern pine beetle. At least nine of these trees would need to be just coming under attack (attacking adults and eggs). Nine other trees would have later brood (larvae + pupae). We would remove bark samples from all 18 trees over a two-day period. Twelve of the trees would be felled. Six would be left in tact and six would have the crowns removed. All hardwoods would be felled around the cut-and-leave and cut-and-top trees so they would be exposed to maximum sunlight (high temperatures to kill beetles). Three weeks later we would come back and take the last samples. The spot could then be salvaged.

We would prefer to use an area where an infestation has broken out next to an old salvaged area. This would allow us to fell the infested trees back into the open where they could be exposed to the sunlight.

We will appreciate any assistance that the Kisatchie National Forest districts can give. Please give Gerry Hertel a call if you have any suitable areas at 445-6511, Ext. 311, or FTS 497-3311.

ROBERT C. LOOMIS

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cc: Bob Summers, Research, SO

Enclosures

GDH:elc